Claims

1. ~~Real-time test system comprising at least one reservoir with monoclonal~~ anti-insulin or anti-C peptide capture antibodies solidified in said reservoir, which reservoir is capable to receive a sample; a wash solution; labelled monoclonal anti-insulin or anti-C peptide antibodies useful as a tracer, wherein the label allows photometrical detection; and at least one photomultiplier detector.
2. Test system ~~according to claim 1~~, wherein the labelled monoclonal anti-insulin or anti-C peptide is present in dried form in the said reservoir.
3. Test system according to claim 1, wherein the said labelled monoclonal anti-insulin or anti-C peptide antibodies are labelled by a ~~chemiluminescent label.~~
4. The system of claim 1, wherein the reservoir is a microtiter well.
5. ~~A method for determining insulin levels in a sample, comprising adding the~~ sample to a reservoir with monoclonal anti-insulin or anti-C peptide capture antibodies solidified in said reservoir, and labelled monoclonal anti-insulin or anti-C peptide antibodies useful as a tracer, followed by incubation giving labelled insulin complexes; washing; and detecting the labelled insulin complexes photometrically.
6. The method of claim 5, wherein the sample is perfusion solution obtained from a pancreas removed from the body after stimulating said pancreas ~~with an insulin-production influencing compound, preferably glucose.~~
7. The method of claim 5, wherein the sample is supernatant of *in-vitro* cultured beta cells.
8. The method of claim 5, wherein the sample is a blood sample.
9. ~~A method for determining insulin levels, comprising sampling blood in the~~ *Vena splenica* and/or *Vena porta*, ~~comprising the steps of~~ introducing a probe in one of said veins, sampling at one or more spots in the said vein, and analysing the samples using the method of claim 5.

10. ~~System for carrying out the method of claim 9 comprising a probe arranged~~ to be introduced in the *Vena splenica* and/or *Vena porta* and the test system of claim 1.

11. System for carrying out the method of claim 9 comprising a probe arranged to be introduced in the *Vena splenica* and/or *Vena porta* and the test system of claim 2.

12. System for carrying out the method of claim 9 comprising a probe arranged to be introduced in the *Vena splenica* and/or *Vena porta* and the test system of claim 3

13. System for carrying out the method of claim 9 comprising a probe arranged to be introduced in the *Vena splenica* and/or *Vena porta* and the test system ~~of claim 4.~~